R represents an alkylene group or a hydrocarbon substituted group containing C=C or C=C, a silicon atom or an oxygen atom;

m represents 0 or 1;

Y represents a hydrogen atom, an alkyl group, an alkoxy group, a fluorine-containing alkoxy group or a fluorine-containing alkyl group;

OA' represents an alkoxy group; and

q' represents 0, 1 or 2;

and the method further comprises a step of baking the substrate after coating.

A method of producing a fluorocarbon-based coating film on a glass substrate comprising:

depositing a siloxane-based inner layer on a surface of the glass; and

coating the siloxane-based inner layer with a compound comprising (1) a fluorocarbon group and a chlorosilyl group or (2) a fluorocarbon group and an alkoxysilyl group.

- 31. A production method of an apparatus comprising a part comprising a fluorocarbon-based polymer coating film comprising:
- a. contacting the part having a surface containing hydroxyl groups with a non-aqueous solvent comprising a material comprising chlorosilyl groups to form a siloxane-based film on the apparatus surface; and
- b. coating the siloxane-based film with a non-aqueous solvent comprising a compound comprising a fluorocarbon group and a chlorosilyl group, represented by the formula: CF_3 - $(CF_2)_n$ - $(R)_m$ - SiX_pCl_{3-p} where n represents 0 or an integer; R represents an alkylene group or a hydrocarbon substituted group containing C=C or C \equiv C, a silicon atom or an oxygen atom; m represents 0 or 1, X represents a hydrogen atom or an alkoxy group; p represents 0, 1 or 2.

- 32. A production method of claim 31, wherein said material comprising chlorosilyl groups is selected from the group consisting of SiCl₄, SiHCl₃, SiH₂Cl₂ and Cl-(SiCl₂O)_n-SiCl₃, wherein n is an integer.
 - 33. Aproduction method of claim 31, wherein p represents 0.
- 34. A production method of claim 31, wherein the apparatus is an electric apparatus, a vehicle or an industrial apparatus.
 - 35. A apparatus made by the method of claim 34.
- 36. The method of claim 27, wherein the vehicle part is made of the member of a group consisting of glass, metals plastics and ceramics.

Please add the following new claims:

- The method of claim 31, wherein the part is made of the number of a group consisting of glass, metals, plastics and ceramics.
 - 38. A method of manufacturing a vehicle part comprising:

forming a siloxane-based film on the vehicle part surface; and

coating the siloxane-based film with a non-aqueous solvent comprising a compound comprising a fluorocarbon group and a chlorosilyl group.

- 39. The method of claim 38, wherein the siloxane-based film is made with a material comprising chlorosilyl groups selected from the group consisting of SiCl₄, SiHCl₃, SiH₂Cl₂ and Cl-(SiC₂O)_n SiCl₃, wherein n is an integer.
 - 40. The method of claim 38, wherein the vehicle part is a window glass of a vehicle.
- 41. A production method of an apparatus having a part applied with a fluorocarbon-based polymer coating film comprising:

forming a siloxane-based film on the part surface; and

coating the siloxane-based film with a non-aqueous solvent comprising a compound

comprising a fluorocarbon group and a chlorosilyl group.

- The method of claim 41, wherein the siloxane-based film is made with a material comprising chlorosilyl groups selected from the group consisting of SiCl₄, SiHCl₃, SiH₂Cl₂ and Cl-(SiC₂O)_n-SiCl₃, wherein his an integer.
- 43. The production method of claim 41, wherein the apparatus is an electric apparatus, a vehicle or an industrial apparatus.
 - 44. An apparatus made by the method of claim 43.
 - 45. The apparatus of claim 44, wherein the apparatus is a vehicle.

REMARKS

The undersigned thanks Examiner Cameron and Mr. McGinty of the USPTO for the telephone interview of September 21 and 25, 2001, respectively, clarifying the current